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September 2007

Publisher: Kluwer Academic Publishers

Information Systems Frontiers, Volume 9 Issue 4

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Recent advances in mobile technologies and infrastructures have created the demand for ubiquitous access to enterprise services from mobile handheld devices. Further, with the invention of new interaction devices, the context in which the services are ...

Keywords: Context, Context-aware application, Design issues, Enterprise workforce management, HCI, Process views, Three-tier architecture, Ubiquitous information system

22 [Dynamic maintenance of web indexes using landmarks](#)[Linxian Lin, Min Wang, Soumen Palmanathan, Jeffrey Scott Vitell, Ramesh Agarwal](#)

May 2003

WWW '03: Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Full text available [PDF](#) (233.78 KB)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (Overall): 589, Citation Count: 7

Recent work on incremental crawling has enabled the indexed document collection of a search engine to be more synchronized with the changing World Wide Web. However, this synchronized collection is not immediately searchable, because the keyword index ...

Keywords: inverted files, update processing

23 [The PARSEC benchmark suite: characterization and architectural implications](#)[Christian Bienia, Sanjiv Kumar, Jawahar Pal Singh, Kai Li](#)

October 2008

PACT '08: Proceedings of the 17th international conference on Parallel architectures and compilation techniques

Publisher: ACM [Download Permissions](#)Full text available [PDF](#) (368.58 KB)**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 334, Downloads (Overall): 542, Citation Count:

This paper presents and characterizes the Princeton Application Repository for Shared-Memory Computers (PARSEC), a benchmark suite for studies of Chip-Multiprocessors (CMPs). Previous available benchmarks for multiprocessors have focused on high-performance ...

Keywords: benchmark suite, multithreading, performance measurement, shared-memory computers

24 [Concurrency control and recovery for multiversion database structures](#)

[Tuukka K. Haapassalo, Ibrahim M. Jallat, Sappo S. Sippu, Elias O. Sosaion-Spinnen](#)

October 2008

PIKM '08: Proceeding of the 2nd PhD workshop on Information and knowledge management

Publisher: ACM  [Request Permissions](#)

Full text available  [PDF](#) (317.47 KB)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 102, Downloads (Overall): 238, Citation Count:

In modern database applications access to historical versions of the dataset is becoming increasingly important. Several multiversion structures with corresponding concurrency-control and recovery algorithms exist, but none of these have optimal logarithmic ...

Keywords: access methods, concurrency, physical design, recovery, transactions, versioned data

25 [Dynamic vp-tree indexing for n-nearest neighbor search given pair-wise distances](#)

[Ada Wai-Sun Fok, Felix M. Lyapunov, Chen-Ming Li, Sheng-Min Tseng, Man-Sang Man](#)

July 2000

The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available  [PDF](#) (232.09 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 47, Downloads (Overall): 658, Citation Count: 11

For some multimedia applications, it has been found that domain objects cannot be represented as feature vec in a multidimensional space. Instead, pair-wise distances between data objects are the only input. To support content-based retrieval, one ...

Keywords: Content-based retrieval, Indexing, Nearest neighbor search, Pair-wise distances, Updating

26 [Safe and timely updates to multi-threaded programs](#)

[Julian Neamtu, Michael Howe](#)

June 2009

PLDI '09: Proceedings of the 2009 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM  [Request Permissions](#)

Full text available  [PDF](#) (494.88 KB)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 189, Downloads (Overall): 296, Citation Count:

Many dynamic updating systems have been developed that enable a program to be patched while it runs, to fix bugs or add new features. This paper explores techniques for supporting dynamic updates to multi-threaded programs, focusing on the problem of ...

Keywords: dynamic software updating, multi-threading, update safety, update timeliness

Also published in:

May 2009 **SIGPLAN Notices** Volume 44 Issue 6

27 [A user-driven data warehouse evolution approach for concurrent personalized analysis needs](#)

[Fadi Benavatek, Cecile Favre, Omar Boussaid](#)

January 2008

Integrated Computer-Aided Engineering, Volume 15 Issue 1

Publisher: IOS Press

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Data warehouses store aggregated data issued from different sources to meet users' analysis needs for decision support. The nature of the work of users implies that their requirements are often changing and do not reach a final state. Therefore, a data ...

28 [Combining text and link analysis for focused crawling: An application for vertical search engines](#)

[G. Alampasidis, C. Katsourakis, I. Pitas](#)

September 2007

Information Systems, Volume 32 Issue 6

Publisher: Elsevier Science Ltd.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

The number of vertical search engines and portals has rapidly increased over the last years, making the importance of a topic-driven (focused) crawler self-evident. In this paper, we develop a latent semantic index classifier that combines link analysis ...

Keywords: Focused crawling, Information retrieval, Latent semantic indexing, Text categorisation, Vertical search engines

29 Trustworthy keyword search for compliance storage

Sounmyadep Mitra, Marianna Winslett, Winder W. Hsu, Kevin Chen-Chuan Chang

March 2008

The VLDB Journal — The International Journal on Very Large Data Bases, Volume 17 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [PDF](#) (961.90 KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Downloads (Overall): 183, Citation Count: 0

Intense regulatory focus on secure retention of electronic records has led to a need to ensure that records are trustworthy, i.e., able to provide irrefutable proof and accurate details of past events. In this paper, we analyze the requirements for a...

Keywords: Compliance storage, Inverted index, Jump index

30 Efficient search in large textual collections with redundancy

Jiangong Zhang, Torsten Suel

May 2007

WWW '07: Proceedings of the 16th international conference on World Wide Web

Publisher: ACM

Full text available:  [PDF](#) (238.77 KB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 70, Downloads (Overall): 487, Citation Count: 7

Current web search engines focus on searching only the most recent snapshot of the web. In some cases, however, it would be desirable to search over collections that include many different crawls and versions of each page. On an important example of such a...

Keywords: index compression, inverted index, query execution, redundancy elimination, search engines

31 Virtualizing Transactional Memory

Ray. Rajwal, Maurice Herlihy, Konrad Lai

June 2005

ISCA '05: Proceedings of the 32nd annual international symposium on Computer Architecture

Publisher: ACM

Full text available:  [PDF](#) (199.77 KB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 92, Downloads (Overall): 938, Citation Count: 8

Writing concurrent programs is difficult because of the complexity of ensuring proper synchronization. Conventional lock-based synchronization suffers from well-known limitations, so researchers have considered non-blocking transactions as an alternative. ...

Also published in:

May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

32 The extended XQL for querying and updating large XML databases

Raymond K. Wong

November 2001

DocEng '01: Proceedings of the 2001 ACM Symposium on Document engineering

Publisher: ACM 

Full text available:  [PDF](#) (117.62 KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 25, Downloads (Overall): 998, Citation Count: 2

XQL has been argued as just a model for asking for specific sets of elements with very limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, ...

33 Communications of the ACM: Volume 51 Issue 10

October 2008

Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [PDF](#) (7.16 MB)

Bibliometrics: Downloads (6 Weeks): 160, Downloads (12 Months): 184, Downloads (Overall): 3417, Citation Count: 0

34 [ServiceTrak Meets NLOG/NMAP](#)[Jon Finkle](#)

November 1999

LISA '99: Proceedings of the 13th USENIX conference on System administration

Publisher: USENIX Association

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Network port scanning tools can be helpful in mapping services and exposures, but in large environments you often get more information than you can handle. This paper describes a project to take the output from NMAP/NLOG and merge it with the existing ...

35 [Continuous program optimization: A case study](#)[Thomas Kistler, Michael Franz](#)

July 2003

Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 4

Publisher: ACM [Request Permissions](#)Full text available: [PDF](#) (877.67 KB)**Bibliometrics**: Downloads (6 Weeks): 15, Downloads (12 Months): 155, Downloads (Overall): 1674, Citation Count:

Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, ...

Keywords: Dynamic code generation, continuous program optimization, dynamic reoptimization

36 [Comparison of access methods for time-evolving data](#)[Rafit Saitberg, Vassilis J. Tsotras](#)

June 1999

Computing Surveys (CSUR), Volume 31 Issue 2

Publisher: ACM [Request Permissions](#)Full text available: [PDF](#) (529.53 KB)**Bibliometrics**: Downloads (6 Weeks): 25, Downloads (12 Months): 207, Downloads (Overall): 1921, Citation Count:

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for ...

Keywords: I/O performance, access methods, structures, temporal databases

37 [Graph indexing: a frequent structure-based approach](#)[Xifeng Yan, Philip S. Yu, Jiawei Han](#)

June 2004

SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM [Request Permissions](#)Full text available: [PDF](#) (274.93 KB)**Bibliometrics**: Downloads (6 Weeks): 29, Downloads (12 Months): 244, Downloads (Overall): 1732, Citation Count:

Graph has become increasingly important in modelling complicated structures and schemaless data such as proteins, chemical compounds, and XML documents. Given a *graph query*, it is desirable to retrieve graphs quickly from a large database via ...

38 [Efficient algorithms for incremental maintenance of closed sequential patterns in large databases](#)[Lei Chen, Tongxin Wang, Dongmei Yang, Xiaolan Shen, Tang](#)

January 2009

Data & Knowledge Engineering, Volume 68 Issue 1

Publisher: Elsevier Science Publishers B. V.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Recent study shows that mining compact frequent patterns (such as closed patterns and compressed patterns) alleviate the interpretability and efficiency problem encountered by traditional frequent pattern mining methods. Compact frequent patterns ...

Keywords: Closed sequential patterns, Data mining, Frequent patterns, Incremental maintenance

39 [B-tree concurrency control and recovery in page-server database systems](#)[Orshim Jaijia](#), [Sampo Soppa](#), [Elias Soisalon-Soininen](#)

March 2006

Transactions on Database Systems (TODS), Volume 31 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (401.86 KB)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 167, Downloads (Overall): 1355, Citation Count:

We develop new algorithms for the management of transactions in a page-shipping client-server database system in which the physical database is organized as a sparse B-tree index. Our starvation-free fine-grained locking protocol combines adaptive callbacks ...

Keywords: ARIES, ARIES/CSA, B-tree, cache consistency, callback locking, client-server database system, data shipping, key-range locking, page server, partial rollback, physiological logging, sparse B-tree, structure modification

40 [Mutatis mutandis: safe and predictable dynamic software updating](#)[Garath Stoyte](#), [Michael Hicks](#), [Gavin Bierman](#), [Peter Sewell](#), [Julian Naamtu](#)January 2005 **POPL '05: Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages****Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (273.03 KB)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 41, Downloads (Overall): 462, Citation Count: 2

Dynamic software updates can be used to fix bugs or add features to a running program without downtime. Essential for some applications and convenient for others, low-level dynamic updating has been used for many years. Perhaps surprisingly, there is ...

Keywords: capability, dynamic software updating, proteus, type inference, updateability analysis

Also published in:

January 2005 **SIGPLAN Notices** Volume 40 Issue 1Result page: [1](#) [2](#) [3](#) [next](#)

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